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50X1-HUM

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

COUNTRY Germany, Soviet Zone

SUBJECT Walter Ulbricht Werke Facilities

PLACE ACQUIRED

DATE ACQUIRED BY SC

DATE OF INFORMAT

NO. OF ENCLS. (LISTED BELOW)

SUPPLEMENT TO REPORT NO.

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THIS IS UNEVALUATED INFORMATION

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1. The Walter Ulbricht Werke, formerly the Leunawerk, is near Merseberg. estimated the 1950 production at the plant to be accurate within plus or minus 10%.

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a. 200,000 metric tons - Ammonia
b. 20,000 " " - Methanol
c. 50,000 " " - Gasoline plus Diesel Oil
d. 600 " " - Amino Caprolactam (8949)

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(Dr. Paul Maass has written me (September 1953) that production has been increased to 3600 tons)

e. Unknown quantity - Catalysts
f. " " - Amines
g. " " - condensation products (as glue)
h. More than 1000 metric tons - Cyclohexanol and Cyclohexanone
i. Unknown quantity - condensation products from cyclohexanone and formaldehyde (lacquers, etc.)

2. It is difficult to give information about the plant equipment because the plant was constructed, especially the compressors and the gas fabrication equipment, to enable shifting of the main production (ammonia, gasoline, and methonal) to meet the requirements. There would also be a difference if the synthesis gas was compressed and the carbon dioxide washed out at a pressure of 25 atmospheres, or if the synthesis gas was washed by an ammonia solution at normal pressure and then compressed. It is clear that in the latter case the production capacity of the compressors would be much higher. The picture is further complicated because there was not only the normal five step compressors (end pressure was 220 - 250 atmospheres) but also the front compressors which worked in three steps to 25 atmospheres and increased the capacity of the normal compressors to balance the loss of the carbon dioxide volume.

3. At Leuna, the production value was expressed in touren, or revolutions per minute. This means that a 1000 horsepower compressor with 100 revolutions per minute would have a suction of;

	Summer	Winter
Ammonia synthesis gas - cubic meters per hour	3200	3460
hydrogen for coal hydrogenation	1800	2000
methanol synthesis gas	2600	2800
isobutanol synthesis gas	2600	2800

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STATE	X	NAVY			DISTRIBUTION
ARMY	X	AIR	X	ORR	FW

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Building	No.	Driven by	"Tourenzahl"	Possible Use	Remarks
165	I	Otto Eng.	300		Damaged
"	II	"	300		"
"	III	"	300		"
"	IV	"	300		"
"	V	"	300		"
"	VI	"	300		"
"	VII	"	300		"
"	VIII	"	300		"
"	IX	"	300		"
"	X	"	300		"
"	XI	"	300	N	" ; repairs finished)
"	XII	"	300	N	" " Dec. 45)
"	XIII	"	300	N	
"	XIV	el. Twin	700	N	dismantled; given back?
"	XV	el.	150	N	damaged; repaired
"	XVI	el.	150	N	
167	I	Otto Eng.	300		damaged; probably repaired
"	II	"	300		"
"	III	"	300		"
"	IV	"	300		"
"	V	"	300		damaged; repaired
"	VI	"	300		damaged; repaired
"	VII	"	300	Hy, N	used as add. copr.
"	VIII	"	300	Hy, N	"
"	IX	"	300		damaged, in repair
"	X	"	300		" "
"	Turbo	Steam	1100	N	damaged, repaired
246	I	el.	150	Hy, N	
"	II	Steam	110	Hy, N	
"	III	"	110	Hy, N	
"	IV	"	110	Hy, N	
"	V	"	110	Hy, N	
"	VI	"	110	Hy	changed to N
"	VII	"	110	Hy, N	
"	VIII	"	110	Hy, N	
"	IX	"	110	Hy, N, Meth	
"	X	"	110	Hy N, compr. N	
"	XI				Total loss
"	XII	"	110	Hy, N, compr. N	
"	XIII	"	110	Hy, N, compr. N	

Hy means Hydrogen for coal- or tar- hydrogenation
N " Ammonia-synthesis gas
Meth " CO and Hydrogen-mixture for production of methanol or isobutanol
compr. N. compressed nitrogen

The compressors were built by several different companies.

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